

Physics Abstracts

Science Abstracts Series A
July-December 1977

Author Index

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SIX-MONTHLY INDEXES TO SCIENCE ABSTRACTS

Cumulative indexes to Science Abstracts are published twice a year covering the period January-June and July-December. They comprise author and subject indexes and some specialised or 'small' indexes. For Physics Abstracts and Electrical & Electronics Abstracts the Author Index and Subject Index are published as separate volumes. In this case the Small Indexes are included in the Author Index volume.

Author index

This lists in alphabetical order all authors of papers abstracted in the abstracts journal during the six months covered by the index, together with the title of the paper. Where there are co-authors of a paper the title of the paper is given only under the name of the first author. The serial number of the paper in the abstracts journal is in the form 7-12345, ie 1977—abstract no. 12345.

'Small' indexes

These are specialised indexes which allow the user to find quickly particular types of information which might be difficult to find using the subject or author indexes.

Bibliography index

In this index reference is made to articles which contain a significant list of references or bibliography on the subjects listed.

Book index

This gives details of books received and abstracted by the abstracts journal.

Conference index

This index lists conferences for which published proceedings have been received and abstracted. Reference is given to the individual papers and their serial numbers in the abstracts journal.

Corporate author index

This is an index to those items where a corporate organisation rather than an individual person is the agent primarily responsible for the publication. Such publications typically include reports of industrial firms or of government departments or research establishments. This index replaces the previous Report and Patent assignee indexes.

Subject index

The Subject index provides an alphabetical subject key to the articles included in the abstracts journal. Some general guidance on its use is given below:

1. Look in the index for the name of the specific subject in which you are interested. In most cases this name will be a heading in the index and you will find relevant articles listed under it.
2. Occasionally you will be directed from the subject heading chosen to a different heading under which the relevant or additional articles are listed.
3. If you do not find the subject heading you first choose, try a more general heading.
4. Each entry under the heading relates to an article appearing in the abstracts journal and gives the serial number of that article in the journal preceded by the last digit of the current year, eg 7—12345; ie Abstract number 12345 in the abstracts journal for 1977.

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Author Index

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Errata

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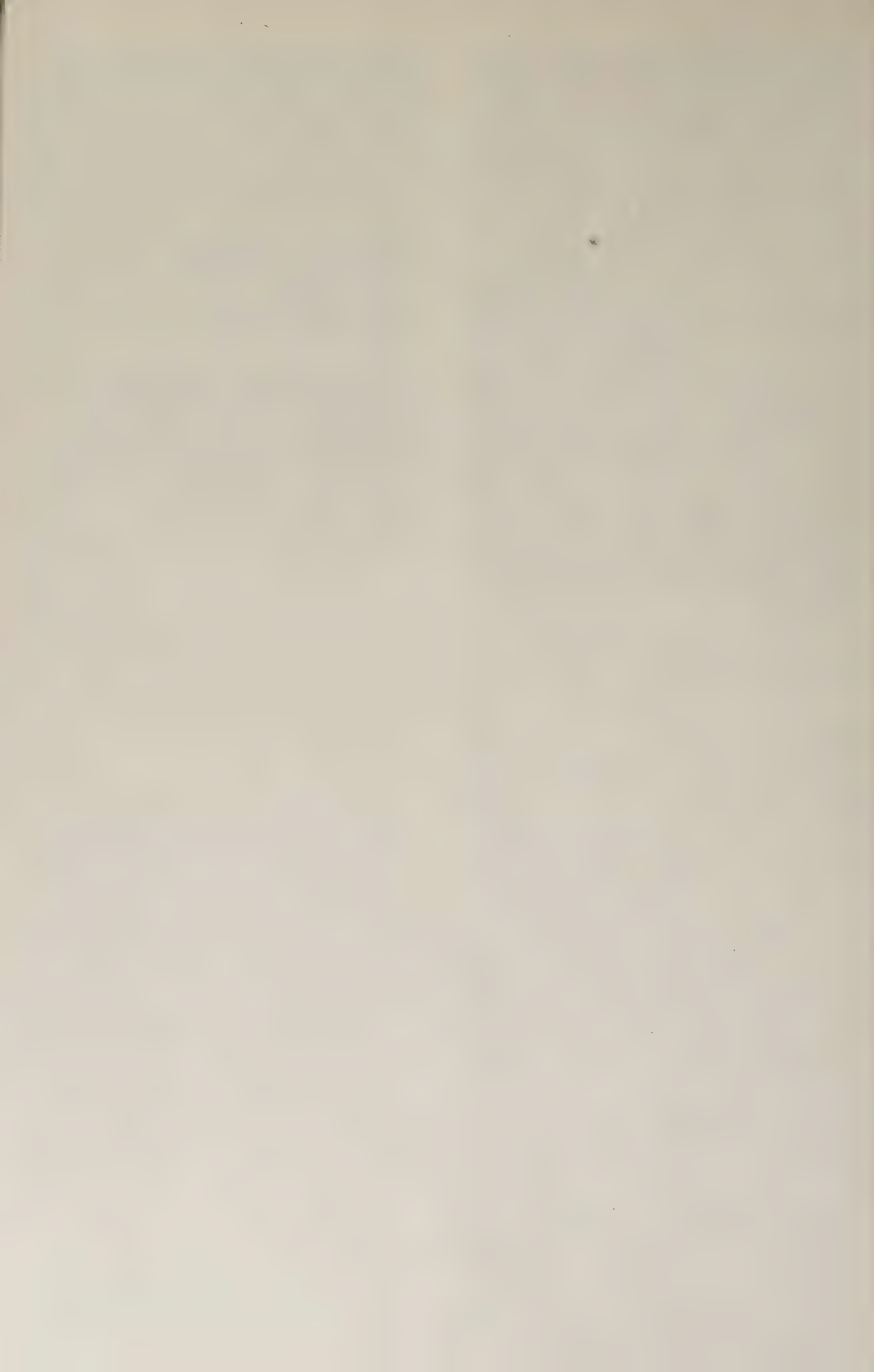
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Applied Spectroscopy Reviews Marcel Dekker Inc., 270 Madison Avenue, New York, NY 10016, USA
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ASLE Transactions American Society of Lubrication Engineers, 838 Busse Highway, Park Ridge, IL 60068, USA
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Aslib Proceedings 3 Belgrave square, London, SW1X 8PL, England
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Association for Literary and Linguistic Computing Bulletin Editorial address: Mrs. J.M. Smith, 6 Sevenoaks Avenue, Heaton Moor, Stockport, Cheshire SK4 4AW, Wales
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ASTM Standardization News American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, USA
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Astrofizika Academy of the Armenian SSR, Erevan, USSR [English translation in: *Astrophysics (USA)*]
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Atom und Strom Vereinigung Deutscher Elektrizitatswerke, Verlags-u. Wirtschaftsgesellschaft der Elektrizitatswerke, Stresemannallee 23, 6000 Frankfurt (Main) 70, Germany
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Atomic Absorption Newsletter Perkin Elmer Corp., Main Avenue, Norwalk, CT 06856, USA
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Atomic Data and Nuclear Data Tables Academic Press Inc., 111 Fifth Avenue, New York, NY 10003, USA
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Atomnaya Energiya Akademiya Nauk SSR, Leninskii Prospekt 14, Moskva, USSR [English translation in: *Sov. At. Energy (USA)*]
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Atomic Energy in Australia Australian Atomic Energy Commission, Post Office, Coogee, N.S.W. 2034, Australia
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Atmospheric Environment Pergamon Press Ltd., Headington Hill Hall, Oxford, OX3 0BW, England
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Atomkernenergie Verlag Karl Thiemig AG, Pilgersheimerstrasse 38, Postfach 90 0740, D-8000 Munchen 90, Germany
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Australian Computer Journal Australian Trade Publications, 28 Chippen Street, Chippendale, N.S.W. 2008, Australia

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Bangladesh Journal of Scientific and Industrial Research Bangladesh Council of Scientific and Industrial Research, Dacca, Bangladesh
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Behavior Research Methods and Instrumentation Psychonomic Society Inc., 1108 West 34th Street, Austin, TX 78705, USA
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Biomedizinische Technik (Biomedical Engineering) Fachverlag Schiele & Schön GmbH, 1 Berlin 16, Markgrafenstrasse 11, Germany. Georg Thieme Verlag, 7 Stuttgart 1, Postfach 732, Herdweg 63, Germany
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Biometrika Biometrika Trust, Biometrika Office, University College London, Gower Street, London, WC1E 6BT, England
- Bionika (USSR)** — (BNKABJ)
Bionika Izdatel'stvo 'Naukova Dumka', Kiev, Repina 3, USSR
- Biophys. J. (USA)** — (BIOJAU)
Biophysical Journal Rockefeller University Press, 1230 York Avenue, New York, NY 10021, USA
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Biophysics of Structure and Mechanism Springer-Verlag, D-1000 Berlin 33, Heidelberger Platz 3, Germany
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Biotelemetry S. Karger AG, Arnold-Bocklin-Strasse 25, CH-4011 Basel, Switzerland
- BIT (Sweden)** — (NBITAB)
BIT (Nordisk Tidskrift för Informationsbehandling) Institutionen för Informationsbehandling, Lunds Universitet, Solvegatan 14A, S-22362 Lund, Sweden
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BKSTS Journal British Kinematography Sound and Television Society, 110/112 Victoria House, Vernon Place, London, WC1B 3DJ, England
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BOCARD (Bulletin of Computer Aided Architectural Design) Editorial address: ABACUS, Department of Architecture and Building Science, University of Strathclyde, 131 Rottenrow, Glasgow G4 0NG, Scotland
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Boletín de la Facultad de Ingeniería y Agrimensura de Montevideo Herrera y Reissig 565, Montevideo, Uruguay
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British Journal of Non-Destructive Testing Non-Destructive Testing Society, Maitland House, Warrior Square, Southend-on-Sea, Essex, England
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Bulletin Israel Society of Special Libraries and Information Centres P.O. Box 20125, Tel Aviv, Israel
- Bull. Jpn. Soc. Precis. Eng. (Japan)** — (BJPEAR)
Bulletin of the Japan Society of Precision Engineering Ceramic Building, 22-17, 2-Chome, Hyakunincho, Shinjuku-ku, Tokyo, Japan
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Bulletin of the Kyushu Institute of Technology (Science and Technology) Tobata, Japan
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Bulletin of Mechanical Engineering Laboratory 12-1 Igusa 4-chome, Sugami-ku, Tokyo, Japan
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Bulletin of the Research Laboratory for Nuclear Reactors Tokyo Institute of Technology Oh-okayana, Meguro-ku, Tokyo, Japan
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Bulletin of the Seismological Society of America Seismological Society of America, 424 40th Street, Oakland, CA 94609, USA
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Journal of Elasticity Academic Book Services Holland, P.O. Box 66, Groningen, Netherlands
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Journal of the Electrochemical Society P.O. Box 2071, Princeton, NJ 08540, USA
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Journal of the Electrochemical Society of India c/o Indian Institute of Science, Department of Metallurgy, Bangalore 560012, India
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Journal of Nonmetals Title changed to: *J. Nonmet. & Semicond. (GB)*
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Journal of Optics Formerly: *Nouv. Rev. Opt. (France)* Masson Editeur, 120 Boulevard Saint-Germain, 75280 Paris Cedex 06, France
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Journal of Optics Optical Society of India, Department of Applied Physics, University of Calcutta, 92 Acharya Prafulla Chandra Road, Calcutta-9, India
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ZWF Zeitschrift fur Wirtschaftliche Fertigung Carl Hanser Verlag, Kolbergerstrasse 22, D-8000 Munchen 80, Germany

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Selection of articles from any journal included in the list of Journal depends on the subject of the articles and their quality.

A number of these journals however are central to the INSPEC subject field and of a quality such that, virtually without exception, all articles are regularly abstracted. These journals are listed below.

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English Letters	Languages	Cyrillic Letters	English Letters	Languages	Cyrillic Letters
a	RSB	А а	p	RSB	П п
b	RSB	Б б	r	RSB	Р р
ch	RSB	Ч ч	s	RSB	С с
d	RSB	Д д	sh	RSB	Ш ш
e	RSB	Е е	shch	R	Щ щ
ë	R	Ё ё	sht	B	Щ щ
é	R	Э э	t	RSB	Т т
ê	R B	Ђ ђ	t'	R B	ТЬ ть
f	RSB	Ф ф	t'	S	Ѓ ѓ
g	RSB	Г г	th	R	Ө ө
i	RSB	И и	ts	RSB	Ц ц
ī	R	І і	t-s	RSB	ТС тс
ī	R B	Й й	u	RSB	У у
j	S	Ї ѳ	ū	B	Ў ў
j'	S	Ј ј	ū	B	Ў ў
k	RSB	К к	v	RSB	В в
kh	RSB	Х х	y	S	Ј ј
l	RSB	Л л	ȳ	R	Ы ы
l'	R B	Љ љ	ÿ	R	Ү ү
l'	S	Љ љ	ya	R B	Я я
m	RSB	М м	yu	R B	Ю ю
n	RSB	Н н	z	RSB	З з
n'	R B	Њ њ	zh	RSB	Ж ж
n'	S	Њ њ	'	R	Ђ ђ
o	RSB	О о	'	R B	Б б

The use of l', n' and t' in Russian and Bulgarian (where they are not transliterations of a single letter, but merely l, n or t followed by the soft sign) is included to emphasise the fact that they are used for single letters only in Serbian.

'Shch' and 'sht' invariably represent the letter III, in Russian and Bulgarian, respectively, since the pairs of letters (IIIh in Russian and IIIT in Bulgarian) seem never to occur consecutively in the respective languages.

The above table is reproduced, by permission, from the pamphlet 'The transliteration of Russian, Serbian and Bulgarian for bibliographical purposes' published by the Royal Society, Burlington House, London W1 (February 1953, price 5p.). It represents the system at present in use in Science Abstracts for the transliteration of the names of journals and the names of authors of articles abstracted.

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